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CLAIM AMENDMENTS

Please cancel claims 1-31 without prejudice.

Please add the following new claims.

32. (New) A system comprising:
a multi-layer printed-circuit board substrate;
the printed circuit board substrate having a first transmission line, a second transmission line constructed within a layer different from the first transmission line, a third transmission line constructed in a layer different from the first and the second transmission lines;
a copper plated via connecting the first transmission line to the third transmission line; and
a ferromagnetic ring surrounding the conductive via on at least one of the layers of the printed-circuit board.
33. (New) The system of claim 32 wherein the ferromagnetic ring material is nickel.
34. (New) The system of claim 32 wherein the ferromagnetic ring is constructed, in part, of a nickel alloy.
35. (New) The system of claim 32 wherein at least one of the transmission lines includes a signal trace cover, at least in part, by a ferromagnetic material.
36. (New) The system of claim 32 wherein at least one of the transmission lines includes a signal trace constructed, at least part, of a ferromagnetic material.
37. (New) The system of claim 32 wherein a ferromagnetic island is coupled to at least one of the transmission lines.